

## TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT

(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.

6386-08-CA

In Re Application Of: Hubert Barth, et al.

JAN 16 2002

Serial No.

09/889,341

Filing Date

7/16/01

Examiner

Group Art Unit

Title: METHOD FOR ARYLATING AZA-HETEROCYCLES WITH ACTIVATED AROMATIC COMPOUNDS IN THE PRESENCE OF CESIUM CARBONATE

Address to:

Assistant Commissioner for Patents  
Washington, D.C. 20231

## 37 CFR 1.97(b)

1.  The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application; within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; or before the mailing date of a first Office Action on the merits, whichever event occurs last.

## 37 CFR 1.97(c)

2.  The Information Disclosure Statement submitted herewith is being filed after three months of the filing of a national application, or the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; or after the mailing date of a first Office Action on the merits, whichever occurred last but before the mailing date of either:

1. a Final Action under 37 CFR 1.113, or
2. a Notice of Allowance under 37 CFR 1.311,

whichever occurs first.

Also submitted herewith is:

- a certification as specified in 37 CFR 1.97(e);

OR

- the fee set forth in 37 CFR 1.17(p) for submission of an Information Disclosure Statement under 37 CFR 1.97(c).

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(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))

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- The Assistant Commissioner is hereby authorized to charge and credit Deposit Account No. 23-0455 as described below. A duplicate copy of this sheet is enclosed.
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Cindy Malocha

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\*This certificate may only be used if paying by deposit account.

Charles W. Ashbrook  
Registration No. 27,610

Warner-Lambert Company  
2800 Plymouth Road  
Ann Arbor, MI 48105  
Tel. (734) 622-5215  
Fax (734) 622-1553

Dated: October 23, 2001

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FORM PTO-1449 U.S. DEPARTMENT OF  
(Rev. 2-32) COMMERCE PATENT AND  
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INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT  
  
(Use several sheets if necessary)

ATTY. DOCKET NO.  
6386-08-CA

SERIAL NO.  
09/889,341

APPLICANT  
HUBERT BARTH, ET AL.

FILING DATE  
7/16/01

GROUP

### U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

### FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc)

	'	PCT International Search Report, PCT/EP00/01574
	'	Lee et al., "Facile Synthesis of Alkyl Phenyl Ethers Using Cesium Carbonate", <u>Synthetic Communications</u> , Vol. 25, No. 9, 1995, pp 1367-1370
	'	Dinsmore and Zartman, "Arylmethanesulfonates are Convenient Latent Phenols in the Nucleophilic Aromatic Substitution Reaction", <u>Tetrahedron Letters</u> , Vol. 40, No. 21, 1999, pp 3989-3990
	'	Wolfe and Buchwald, "Improved Functional Group Compatibility in the Palladium-Catalyzed Amination of Aryl Bromides", <u>Tetrahedron Letters</u> , Vol. 38, No. 36, 1997, pp 6359-6362
	'	Flessner and Doye, "Cesium Carbonate: A Powerful Inorganic Base in Organic Synthesis", <u>J. Prakt. Chem.</u> , Vol. 341, No. 2, 1999, pp 186-190
	'	Gale and Wilshire, "The Preparation of Sole Polymethine Astrazon Dyes", <u>Aust. J. Chem.</u> , Vol. 23, 1970, pp 1063-1068
	'	Stabler and Jahangir, "Preparation on N-Arylated Heterocycles by Nucleophilic Aromatic Substitution", <u>Synthetic Communications</u> , Vol. 24, No. 1, 1994, pp 123-129
	'	Smith and Sawyer, "A Novel and Selective Method for N-Arylation of Indoles Mediated by KF/Al <sub>2</sub> O <sub>3</sub> ", <u>Tetrahedron Letters</u> , Vol. 37, No. 3, 1996, pp 299-302
	'	Mann et al., "Palladium-Catalyzed C-N(sp <sup>2</sup> ) Bond Formation: N-Arylation of Aromatic and Unsaturated Nitrogen and the Reductive Elimination Chemistry of Palladium Azolyl and Methylenamido Complexes", <u>J. Am. Chem. Soc.</u> , Vol. 120, No. 4, 1998, pp 827-828
	'	Maiorana et al., "Aromatic Nucleophilic Substitution on Haloarene Chromium Tricarbonyl Complexes: Nild N-Arylation of Indoles", <u>Synthesis</u> , 1998, pp 735-738
		Park et al., "Synthesis and <sup>1</sup> H-nmr and N-Arylated Nitrogen-Containing Aromatic Heterocycles", <u>Bulletin of Korean Chemical Society</u> , Vol. 6, No. 3, 1985, pp 141-144

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

ANY COPIES OF DOCUMENTS LISTED ON THIS FORM PTO-1449 SHOULD HAVE CERTAIN INFORMATION PLACED ALONG THE LEFT SIDE OF THE DOCUMENT. INFORMATION SUCH AS DOCKET NUMBER, FILING DATE, SERIAL NUMBER, ART UNIT, ETC.